

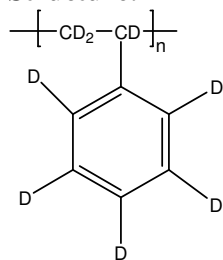
Sample Name: Deuterated Polystyrene (d₈)

SEC elugram of Homopolymer:

Sample #: P3595F4-dPS

P3595F4-dPS

Structure:

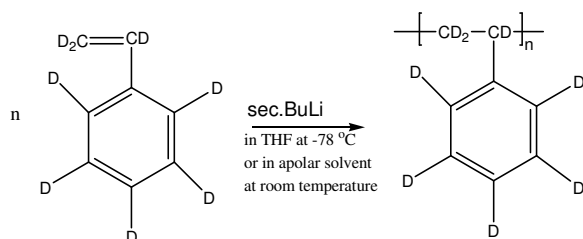


Composition:

Mn x 10 ³	PDI
2000.0	1.5

Synthesis Procedure:

Deuterated polystyrene-d₈ is obtained by living anionic polymerization of styrene-d₈ as illustrated below:

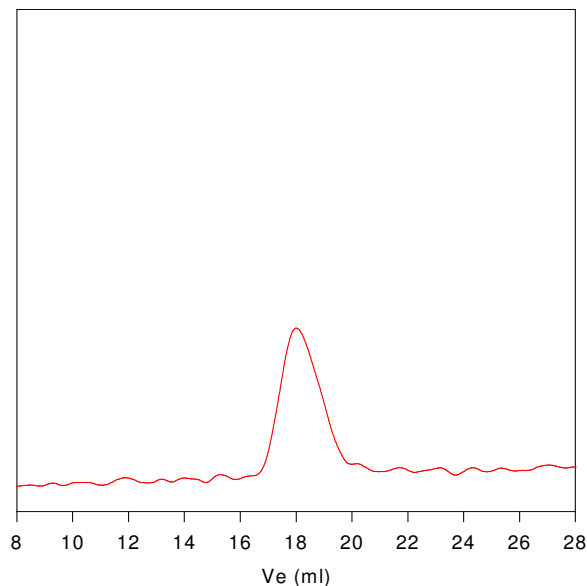


Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used.

Solubility:

Deuterated polystyrene-d₈ is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.



Size exclusion chromatograph of deuterated polystyrene:

M_n=2000,000, M_w=3000,000 PI=1.5